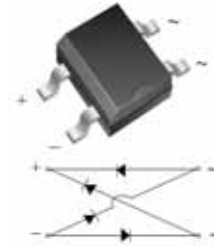
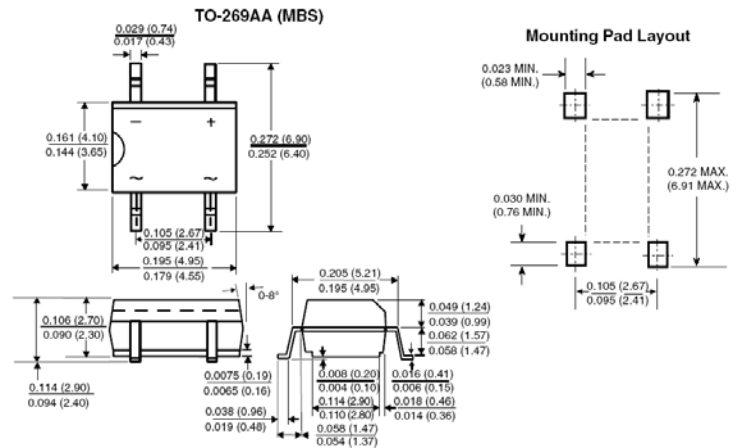


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junctions
- High surge overload rating:30A peak
- Saves space on printed circuit boards
- High temperature soldering guaranteed:260 /10 seconds


Mechanical Data

- Case:Molded plastic body over passivated junctions
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Mounting Position:Any
- Weight:0.078 oz.,0.22g


Maximum Ratings & Electrical Characteristics

($T_A=25$ unless otherwise noted)

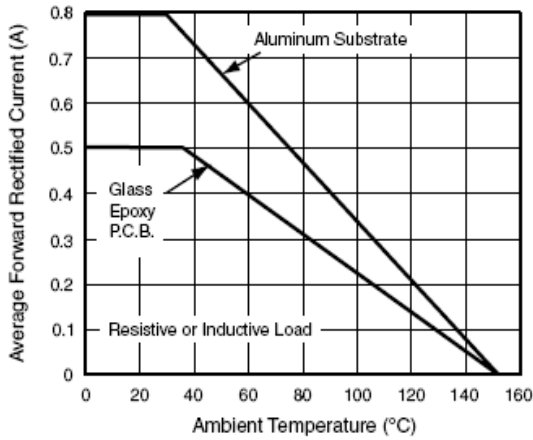
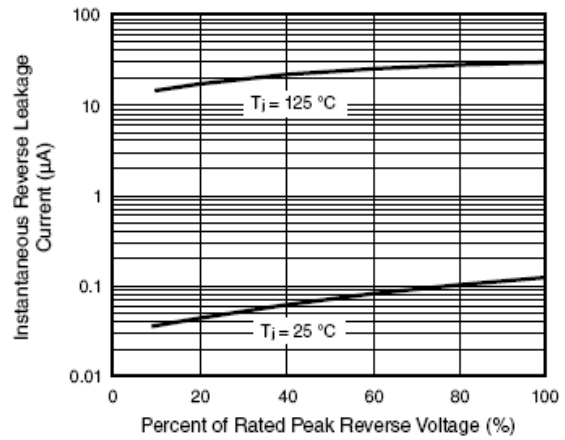
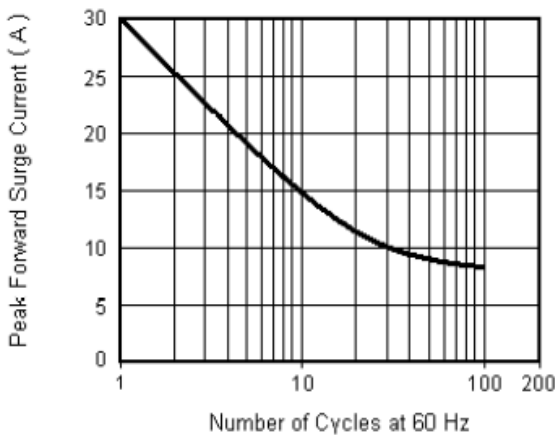
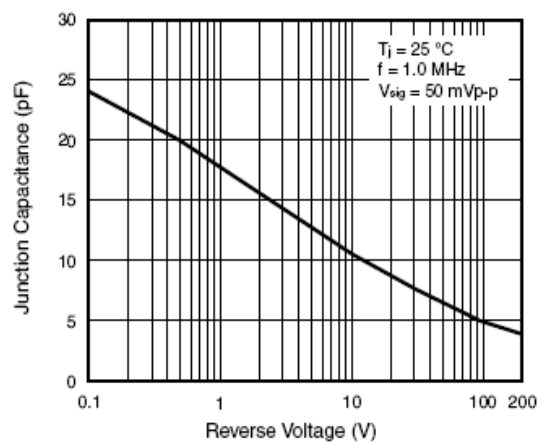
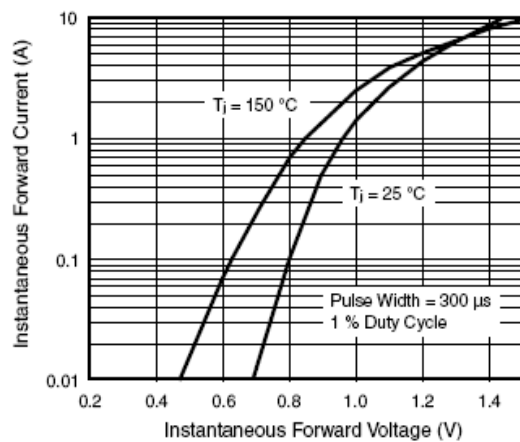
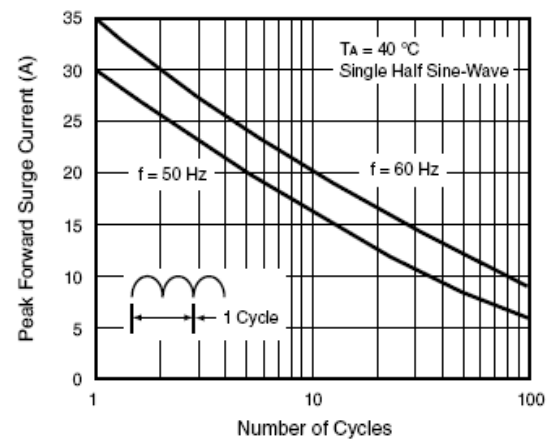
Parameter	Symbol	MB6SA	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum Average forward output current (see Fig.1) on glass-epoxy P.C.B on aluminum substrate	$I_{F(AV)}$	0.5 ⁽¹⁾ 0.8 ⁽²⁾	A
Peak forward surge current 8.3 MS single HALF sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30	A
Rating for fusig ($t<8.3ms$)	I^2t	5	A ² sec
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.00	V
Maximum DC reverse current at rated DC blocking voltage per leg	I_R	5 100	μA
Typical thermal resistance per leg	$R_{\theta JA}$	85 ⁽¹⁾	/W
	$R_{\theta JA}$	70 ⁽²⁾	
	$R_{\theta JL}$	20 ⁽¹⁾	
Typical junction capacitance per at 4.0V,1.0MHz	C_j	13	pF
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	

Notes: 1. On glass epoxy P.C.B. mounted on 0.05×0.05"(1.3×1.3mm) pads

2. On aluminum substrate P.C.B.whth an area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad

Ratings and Characteristics Curves

(TA = 25 unless otherwise noted)


Figure 1. Derating Curve for Output Rectified Current

Figure 4. Typical Reverse Leakage Characteristics Per Leg

Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

Figure 5. Typical Junction Capacitance Per Leg

Figure 3. Typical Forward Voltage Characteristics Per Leg

Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode